

Course Title	OPERATING SYSTEMS I
Course Code	CSN 115
Course Purpose and Objectives	The purpose of this course is to cover the theoretical aspects of Processes and Scheduling to help the students understand the way in which an OS operates. The particular course is aligned with Chapters 1-9 of the course NDG Linux Essentials of CISCO Networking Academy. In that particular course, a first meet with the Linux environment is established and then further knowledge on that environment will be earned in the course CSN 121. The content of this course, developed by experts, a Linux virtual machine and step-by-step labs, gives students a hands-on access to practice Linux command line concepts. Through this course students overview the types of OS systems and understand the terms deadlock, starvation, parallelism and multiprocessing. Students use synchronization to solve deadlocks. They also use basic Linux commands.
Learning Outcomes	<ol style="list-style-type: none"> 1. Define the types of OS. 2. Describe the terms deadlock and starvation, parallelism and multiprocessing. 3. Describe and use of synchronization in solving deadlocks. 4. Explain the differences between multitasking and multithreading. 5. Use Linux basic commands.
Course Content	<ul style="list-style-type: none"> • Introduction to Linux • Operating Systems • Using Linux • Open-Source Applications and Licenses • Command Line Skills • Getting Help • Using Directories and Listing Files • Managing Files and Directories • Archiving and Compression